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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,743	11/25/2003	Christian Correll	1454.1512	3113
21171 7590 05/15/2007 STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			EXAMINER PERUNGAVOOR, VENKATANARAY	
			ART UNIT 2132	PAPER NUMBER
			MAIL DATE 05/15/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/720,743

Applicant(s)

CORRELL ET AL.

Examiner

Venkat Perungavoor

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 November 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 11/25/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 11/25/2003, is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.


Claims 1, 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6931025 to Masuda in view of US Patent 6091820 to Aziz.

Regarding Claim 1, 5, Matsuda discloses the forming a collective Internet Protocol data packet, each containing several data packets of different communication streams see Fig. 4 item 3a. But does not explicitly disclose the encrypting of the collective Internet Protocol packet and further of transmitting the encrypted collective packet. However, Aziz discloses the encrypting of packet see Fig. 3 see "Encrypt Packet in K_p , Encrypt K_p in $[K_{ij}]_{N_i}$ " and transmit the encrypted packet see "Send Encrypted PKT & Encrypted K_p to J". And further Aziz discloses the collection of packets

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being encrypted using a single key see Col 11 Ln 22-40 (where Aziz mentions the significant overhead associated with changing keys, similar to the instant application's specification¹ and ameliorate the problem by pre-computing the keys for initialization process). It would be obvious to one having ordinary skill in the art at the time of the invention to include encrypting of packets and transmitting the encrypted packet in the invention of Matsuda in order to have privacy and authenticity in a IP environment as taught in Aziz see Col 8 Ln 59-64.

Regarding Claim 6, Matsuda discloses the adding/encapsulating of a second IP packet header to the first collective packet see Fig. 3 item 2a.

Claims 2-4, 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6931025 to Masuda in view of US Patent 6091820 to Aziz further in view of US Patent 2003/0133461 to Ho et al. (hereinafter Ho). *Applicable (prior art)* 

Regarding Claim 2, Matsuda nor Aziz explicitly disclose a network tunnel through which encrypted packets can be sent. However, Ho discloses the network tunnel through which encrypted packets can be sent see Fig. 1 item 160 & Apr. 0029. It would be obvious to one having ordinary skill in the art at the time of the invention to include a network tunnel through which encrypted packets can be sent in the invention of Matsuda in order to have constant bit rate through the tunnel as taught in Ho see Par. 0025.

¹ Par. 0008

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Regarding Claim 3,7, Matsuda discloses the determining of different communication data stream(audio, IP packet) destined for same destination and collectively forming a packet including the different communication streams see Fig. 1 item 3f & 3g.

Regarding Claim 4, Matsuda does not disclose the time interval for receiving packet to be encrypted. However, Aziz discloses the time interval for receiving packets to be encrypted see Fig. 7 item "Wait for PKTS or TIMEOUT". It would be obvious to one having ordinary skill in the art at the time of the invention to include the time interval for receiving packets to be encrypted in the invention of Matsuda in order to key changed on each time interval as taught in Aziz see Fig. 7 item "Time to Change".

Regarding Claim 8, Matsuda discloses the super frames being constructed within the traffic meter parameters, which includes Timeouts see Fig. 1 "Super Frame Constructing Waiting" & Fig. 7.

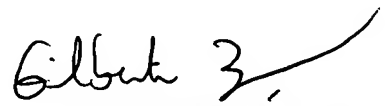
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkat Perungavoor whose telephone number is 571-272-7213. The examiner can normally be reached on 8:30-5:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VP/
Venkat Perungavoor
Examiner
Art Unit 2132
May 11, 2007


GILBERTO BARRON JR
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100